

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(s): ABUTALEBI et al.

SERIAL NO.: 10/642,847

ART UNIT: 2643

FILING DATE:

August 18, 2003

EXAMINER:

TITLE:

METHOD AND SYSTEM FOR PROCESSING SUBBAND

SIGNALS USING ADAPTIVE FILTERS

ATTORNEY

DOCKET NO.:

881-011446-US (PAR)

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b)(3))

Sir:

This information disclosure statement is being filed before the mailing of a first Office Action on the merits.

The following information is being disclosed to the Patent and Trademark Office as information that may be material to the examination of the above-identified patent application. Applicants' Attorney is aware of the following references:

US 5,267,266 US 5,329,587

A. Gilloire et al. "Adaptive Filtering in Subbands with Critical Sampling: Analysis, Experiments, and Application to Acoustic Echo Cancellation" (pp. 1862-1875)

Wai Pang Ng, et al. "Parallel DAF Measurement Device (PDMD) for Non-Intrusive Whitening of Speech" (pp. 1052-1056)

- Q.G.Liu, et al., "On the Use of a Modified Fast Affine Projection Algorithm in Subbands for Acoustic Echo Cancelation" (pp. 354-357)
 - Gansler, et al., "Double-Talk Robust Fast Converging Algorithms For Network Echo Cancellation" (pp. 215-218)
 - Mariane R. Petraglia, et al., "Performance Comparisons Of Two Adaptive Subband Structures" (pp. 235-238)
- Kazuhiko Ozeki et al., "An Adaptive Filtering Algorithm Using an Orthogonal Projection to an Affine Subspace and its Properties" (pp. 19-27)
 - R.G. Alves, et al., "RLS Algorithm for a New Subband Adaptive Structure with Critical Sampling" (pp. 442-447)
- Kiyoshi Nishikawa et al., "Multirate Repeating Method for Alias Free Subband Adaptive Filters" (pp. 776-783)

Copies of these patents are enclosed together with a Form PTO-1449.

The above-identified patent application has a counter part PCT patent application No. PCT/CA03/01234. Applicant's attorney encloses a copy of the Search Report issued for the counter part PCT application. The Search Report cites several references, which were provided with the Search Report, and are being disclosed to the Patent and Trademark Office as information that may be material to the examination of the above-identified patent application.

The filing of this Statement is not to be construed as a representation that a search has been made regarding the claimed invention (37 C.F.R. §1.97(g)) or that no other possible material information exists. In addition, the filing of this Information Disclosure Statement is not to be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability (37 C.F.R. §1.97(h)).

The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,

Reg. No.

Customer No. 2512

PERMAN & GREEN, LLP 425 Post Road Fairfield, CT 068424

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date indicated below as first class mail in an envelope address to the Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Page No.: 1 of: 1 Docket No.: 881-011446-US (PAR) Serial No.: 10/642,847

INFORMATION DISCLOSURE CITATION FORM FOR PATENT APPLICATION (FORM PTO-1449)

Applicant(s): ABUTALEBI et al.

Group: 2643

	(Substitute)		Filing Date: 8/18/03 Group: 2643			
			U.S. PATENTS			
Initials	Patent Number	Issue Date	Name	Class	Sub- class	Filing date
	5,267,266	11/30/1993	Chen	375	14	
	5,329,587	7/12/1994	Morgan et al.	379	410	
			U.S. PATENT PUBLICATIONS			
Initials	Publication No.	Pub. Date	Name	Class	Sub- class	Filing Date
			REIGN PATENT DOCUMENTS			Translation?
Initials	Document Number Date		Country	Nam	Name Translation Yes/No/n	
	ОТНЕ	R DOCUME	NTS (Title, Author, Date, Pages, Et	c., if knov	vn)	
	Andre Gilloire, et al., Acoustic Echo Cance 1862-1865.	, "Adaptive Filte ellation", 8084 IE	ring in Subbands with Critical Sampling: Anal EEE Transactions on Signal Processing 40(199	ysis, Experi 2) August, l	ments, and A No. 8, New Y	ork, pages
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